

IN THE CLAIMS:

1. (Currently amended) A method for altering a plant agronomic trait selected from the group consisting of time to flowering, duration of flowering in a plant, fruit yield, seed yield, root biomass, seed size, seed shape, number of stem branches, and size of a plant, the method comprising:

(a) introducing into a plant cell an expression cassette comprising a nucleotide sequence operably linked to a promoter that is operable within the plant cell, wherein the nucleotide sequence is selected from the group consisting of:

- (i) a nucleotide sequence antisense to a plant *AGBI* or an *AGBI* ortholog,
- (ii) a nucleotide sequence comprising an inverted repeat of *AGBI* or an *AGBI* ortholog,
- (iii) a nucleotide sequence encoding a dsRNA, the dsRNA comprising a first RNA complementary to at least 25 consecutive nucleotides of a plant *AGBI* or an *AGBI* ortholog and a second RNA substantially complementary to the first RNA [[,]] ; and
- ~~(iv) a nucleotide sequence that is *AGBI* or an *AGBI* ortholog, and~~
- ~~(v) a nucleotide sequence that is *GPA1* or a *GPA1* ortholog; and~~

(b) regenerating a plant that has a stably integrated expression cassette from the plant cell, wherein the regenerated plant has an altered agronomic trait.

2. (Original) The method of claim 1, wherein the promoter is selected from the group consisting of constitutive, inducible, developmentally regulated, tissue-preferred, minimal and 35S promoters.

3. (Original) The method of claim 1, wherein the plant is a dicot, a monocot, a gymnosperm or a member of the genus *Brassica*.

4. (Currently amended) The method of claim 1, wherein the ~~nucleotide sequence that is~~ plant *AGBI* has the sequence set forth in SEQ ID NO:1.

5. (Canceled).

6. (Original) The method of Claim 1, wherein the altered plant agronomic trait is time to flowering, and the regenerated plant has an altered time to flowering.

7. (Currently amended) The method of Claim 1, wherein the altered plant agronomic trait is duration [tø] of flowering wherein the plant has an altered duration of flowering.

8. (Original) The method of Claim 1, wherein the altered plant agronomic trait is fruit yield, and the regenerated plant has an altered fruit yield.

9. (Original) The method of Claim 1, wherein the altered plant agronomic trait is seed yield, and the regenerated plant has an altered seed yield.

10. (Original) The method of Claim 1, wherein the altered plant agronomic trait is altered seed size and the regenerated plant has an altered seed size

11. (Original) The method of Claim 1, wherein the altered plant agronomic trait is seed shape and the regenerated plant has an altered seed shape.

12. (Original) The method of Claim 1, wherein the altered plant agronomic trait is altered plant size, and the regenerated plant has an altered plant size.

13. (Original) The method of Claim 1, wherein the altered plant agronomic trait is number of stem branches and the regenerated plant has an altered number of stem branches.

14-23 (Canceled).

24. (Currently amended) A transgenic plant having stably integrated into its genome an expression cassette comprising a nucleotide sequence operably linked to a promoter that is

operable within the plant, wherein the nucleotide sequence is selected from the group consisting of:

- (a) a nucleotide sequence antisense to a nucleotide sequence that is *AGBI* or an *AGBI* ortholog,
- (b) a nucleotide sequence comprising an inverted repeat of *AGBI* or an *AGBI* ortholog, and
- (c) a nucleotide sequence encoding a dsRNA, the dsRNA comprising a first RNA complementary to at least 25 consecutive nucleotides of a plant *AGBI* or an *AGBI* ortholog and a second RNA substantially complementary to the first RNA  
[[, and ]]
- ~~(d) a nucleotide sequence that is *AGBI* or an *AGBI* ortholog.~~

25. (Original) The transgenic plant of claim 24, wherein the plant is a dicot, a monocot, a gymnosperm, a member of the genus *Brassica*, or *Brassica napus*.

26. (Original) Transgenic seed from the plant of claim 24.

27. (Original) A transgenic plant that is not *Arabidopsis*, wherein the plant has a disruption in a gene that is an *AGBI* ortholog endogenous to the plant.

28. (Original) The transgenic plant of claim 27, wherein the plant is a dicot, a monocot, a gymnosperm, a member of the genus *Brassica*, or *Brassica napus*.

29. (Canceled).

51. (New) The transgenic plant of claim 24, wherein the plant *AGBI* has the sequence set forth in SEQ ID NO:1.